PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or ag	ent's file reference	TOD 1711				
54-000510PC		. FOR FURTHER ACTION		See Form PCT/IPEA/416		
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US04/21813 07 July 2004 (07.07.200			04)	07 July 2003 (07.07.2003)		
1	International Patent Classification (IPC) or national classification and IPC					
IPC: C12N 9 USPC: 435/25	USPC: 435/252.3,193,91.4,320.1,13,69.1;536/23.2					
	ESEARCH INSTITUT	'E				
			• • •			
Exair	uming Authority unde	r Article 35 and transm	itted to the applicant a	ished by this International Preliminary according to Article 36.		
		a total of 6 sheets,		heet.		
3. This	report is also accomp	anied by ANNEXES, o	comprising:			
a. [sheets, as follows:		
	of this repor	t and/or sheets contair ction 607 of the Admin	ning rectifications auth istrative Instructions).	nave been amended and are the basis horized by this Authority (see Rule		
_	amendment (ch supersede earlier s that goes beyond the tem 4 of Box No. I and	disclosure in the in	is Authority considers contain an ternational application as filed, as		
b						
	Administrative Ins	structions).	anning to bequente	Esting (see Section 802 of the		
4. This r	eport contains indica	tions relating to the foll	owing items:			
\boxtimes	Box No. I Ba	sis of the report	_			
	Box No. II Pri	ority				
Box No. III Non-establishment of opini applicability			ion with regard to nov	velty, inventive step and industrial		
\bowtie	Box No. IV Lac	ck of unity of invention				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive industrial applicability; citations and explanations supporting such statement			regard to novelty, inventive step or			
Box No. VI Certain documents cited			•	11		
Box No. VII Certain defects in the intern			national application			
Box No. VIII Certain observations on the international application			tion			
Date of submission of the demand			Date of completion of	of this report		
22 December 2004 (22.12.2004)		13 February 2006 (13.	02 2006)			
Name and mailing address of the IPEA/ US		Authorized officer	02.2000)			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			4 Robert la			
P.O. Box 1450 Alexandria, Virginia 22313-1450		Achutamurthy Ponnath	napura F. Roberts for			
Facsimile No. (57)	Facsimile No. (571) 273-3201		Telephone No. (571) 2	272-1600		
m PCT/IPEA/409 (cover sheet)/April 2005)						

International	application	No.	

PCT/US04/21813

Box No. I Basis of the report
1. With regard to the language, this report is based on:
the international application in the language in which it was filed.
a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:
international search (under Rules 12.3 and 23.1(b))
publication of the international application (under Rule 12.4(a))
international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
the international application as originally filed/furnished
the description:
pages 1-92 as originally filed/furnished pages* NONE received by this Authority on
pages* NONE received by this Authority on
the claims:
pages 93-99 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on
pages* NONE received by this Authority on
the drawings:
pages 1-6 as originally filed/furnished
pages* NONE received by this Authority on pages* NONE received by this Authority on
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages
the claims, Nos
the drawings, sheets/figs
the sequence listing (specify):
any table(s) related to the sequence listing (specify):
* If item 4 applies, some or all of those sheets may be marked "superseded."
orm PCT/IPEA/409 (Box No. I) (April 2005)

International application No.	
PCT/USOA/21912	

Box No. IV	Lack of unity of invention
1. 🔲 In	response to the invitation to restrict or pay additional fees the applicant has, within the applicable time limit:
	restricted the claims. paid additional fees.
	paid additional fees under protest, and, where applicable, the protest fee
	paid additional fees under protest but the applicable protest fee was not paid
	neither restricted the claims nor paid additional fees
2. X Thi	s Authority found that the requirement of unity of invention is not complied with and chose, according to le 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Aut	hority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:
not	complied with for the following reasons:
See Lack of	f Unity section of the International Search Report Form PCT/ISA/210.
. Consequen	tly, this report has been established in respect of the following parts of the international application:
	parts
the	parts relating to claims Nos.

Form PCT/IPEA/409 (Box No. IV) (April 2005)

International application No.

PCT/US04/21813

Box No. VII	Certain defects in the international application			
The following d	The following defects in the form or contents of the international application have been noted:			
The international identical with the	application is not signed by at least one applicant. In additon the title as appearing in box 1 of the request is not title heading the description.			
	•			

Form PCT/IPEA/409 (Box No. VII) (April 2005)

International application No.	
POT/1004 P1010	

Supplemental Box F	Relating to Sequence Listing
Continuation of E	Box No. I, item 2:
1. With regard to claimed invention	any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the on, this report was established on the basis of:
a. type of mate	rial
a sc	equence listing
tabl	e(s) related to the sequence listing
b. format of ma	aterial
on j	paper
in e	electronic form
c. time of filing	g/furnishing
con	tained in the international application as filed
file	d together with the international application in electronic form
M furi	nished subsequently to this Authority for the purposes of search and/or examination
rece	eived by this Authority as an amendment* on
filed or f	on, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been furnished, the required statements that the information in the subsequent or additional copies is identical to that in cation as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional com	ments:
* If item 4 in Box superseded."	No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked

International application No. PCT/US04/21813

Box No.	 Reasoned statement under Arrapplicability; citations and exp 	ticle 35(2) with planations sup	h regard to novelty, invent porting such statement	ive step or industrial
1. Staten	nent			
	Novelty (N)	Claims	1-49	YES
		Claims	NONE	NO
	Inventive Step (IS)	Claims	1-49	YES
	• • •		NONE	
	Industrial Applicability (IA)	Claims	1-49	YES
	mannam - spp		NONE	
	49 meet the criteria set out in PCT Articl de or used in industry.	e 33(4), and thu	s have industial applicability be	cause the subject matter claimed

Form PCT/IPEA/409 (Box No. V) (April 2005)

PATENT COOPERATION TREATY

PCT

NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

(PCT Rule 66.6)

International application No.		Applicant's or agent's f	ile reference	Date of informal communication	
PCT/US04/21813		54-000510PC		(day/month/year) 14 February 2006 (14.02.2006)	
Applicant				14 Pebruary 2000 (14.02.2000)	
THE SCRIPPS RESEA	RCH INSTITUT	E			
			7 Identity	authorization personally	
Communication	Participants	L	checked	checked known	
by telephone	Applicant	: THE SCRIPPS RES	EARCH INSTITUT	E	
personal	Agent:	Attorney Jonathan Q	uine		
potocia	Examine	(s): Kagnew Gebreyesus			
Summary of communica	tion:				
		09 international prelimina	ry avomination		
Applicants agent agreet	i to receive the 40	os international prenima	ry examination repor	τ.	
·					
An extension of time-limit is granted (Form-PCT/IPEA/427.					
A copy of this note is being sent to the applicant with Form PCT/IPEA/416 & 409.					
Name and mailing addre	ss of the IPEA/U	S	Authorized officer		
Mail Stop PCT. Attn: IPEA/ US Commissioner for Patents			mathapura A. Roberto for		
P.O. Box 1450		i	Achutamurthy Por	mathapura Y. 100000	
Alexandria, Virginia 22313-1450		Telephone No. (5	71) 272-1600 <i>U</i>		

Facsimile No. (571) 273-3201
Form PCT/IPEA/428 (July 1992; reprint January 2004)